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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/976,091	10/15/2001	Koskimies Oskari	017.40746X00	9332

22907 7590 12/26/2007
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SUITE 1200
WASHINGTON, DC 20005-4051

EXAMINER

PATEL, NIRAV B

ART UNIT	PAPER NUMBER
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2135

MAIL DATE	DELIVERY MODE
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12/26/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/976,091

Applicant(s)

OSKARI, KOSKIMIES

Examiner

Nirav Patel

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 October 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 48-85.92 and 95-102 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 48-85.92 and 95-102 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. This action in responsive to the communication filed on Oct. 09, 2007. Claims 48-85, 92, 95-102 are pending. Claims 48-85 and 92 are amended and Claims 95-102 are newly added claims by applicant.

2. Applicant's election without traverse of the elected group I, claims 48-85 and 92, in the reply filed on 11/20/06 is acknowledged. Claims 86-91, 93, 94 are withdrawn and canceled by the applicant from further consideration.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 48-50, 54-71, 77, 80-85, 92 and 95-101 are rejected under 35 U.S.C. 103(a) as being unpatentable over Theimer et al (US Patent No. 5,649,099) and in view of Guski et al (US Patent No. 6,711,679).

As per claim 48, Theimer teaches:

a first electronic key device authorized to unlock an electronic lock device and configured to generate an electronic ticket for providing a second electronic key device authorization to unlock the electronic lock device [Fig. 1A, 1B, 2C, col. 7 lines 54-63,

col. 11 lines 61-67, col. 12 lines 1-16], wherein the ticket is transmittable from the first electronic key device to the second key device and wherein the ticket is electronically signed by the first electronic key device [Fig. 1B, 2C, col. 11 lines 63-64].

Guski teaches: the electronic ticket comprising a public key corresponding to the second key device [Fig. 5, col. 7 lines 27-29], wherein the ticket is transmittable from the first electronic key device to the second key device and wherein the ticket is electronically signed by the first electronic key device using a private key of the first electronic key device [Fig. 3, col. 7 lines 20-21].

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Guski with Theimer, since one would have been motivated to provide security in a multi-tier network environment and provide delegating authentication and authority [Guski, col. 3 lines 50-51, col. 1 lines 9-12].

As per claim 49, the rejection of claim 48 is incorporated and Guski teaches the first key device is configured to wirelessly communicate using Bluetooth short range communication protocol [col. 6 lines 17-23].

As per claim 50, the rejection of claim 48 is incorporated and Theimer teaches said electronic lock device is a virtual lock device in a form of a software module controlling access to digital resources [Fig. 1A].

As per claim 54, the rejection of claim 48 is incorporated and Guski teaches:

wherein at least one of the first and second key devices comprises a portable wireless device [col. 6 lines 17-30].

As per claim 55, the rejection of claim 54 is incorporated and Guski teaches:

wherein at least one of the first and second electronic key devices comprises a wireless telephone [col. 6 lines 17-30].

As per claim 56, the rejection of claim 54 is incorporated and Guski teaches:

wherein at least one of the first and second electronic key devices is wearable by the user [col. 6 lines 17-30].

As per claim 57, the rejection of claim 48 is incorporated and Guski teaches:

wherein the first key devices includes a power source, a processor, non-volatile memory and a transmitter/receiver unit [Fig. 1].

As per claim 59, it encompasses limitations that are similar to limitations of claim 48.

Thus, it is rejected with the same rationale applied against claim 48 above.

As per claims 60 and 61, the rejection of claim 59 is incorporated and they encompass limitations that are similar to limitations of claim 50. Thus, they are rejected with the same rationale applied against claim 50 above.

As per claim 62, the rejection of claim 59 is incorporated and Guski teaches:
the one or more electronic tickets further comprise access limits [col. 7 lines 29-30].

As per claim 63, the rejection of claim 62 is incorporated and Guski teaches:
wherein the access limits include time of day [col. 7 line 29].

As per claim 64, the rejection of claim 62 is incorporated and Guski teaches:
wherein the access limits include authorization to generate further electronic tickets [col.
7 lines 33-35].

As per claim 65, the rejection of claim 59 is incorporated and Theimer teaches:
wherein the one or more electronic tickets are transmittable to one or more lock devices
[Fig. 1A].

As per claims 66 and 67, the rejection of claim 65 is incorporated and they encompass
limitations that are similar to limitations of claim 50. Thus, they are rejected with the
same rationale applied against claim 50 above.

As per claim 68, the rejection of claim 59 is incorporated and Guski teaches:
wherein at least one of the first and second electronic key devices includes a display for
indicating the number of available electronic tickets [Fig. 1].

As per claim 69, the rejection of claim 59 is incorporated and Guski teaches:

wherein the one or more electronic tickets include an expiration date [col. 7 line 29].

As per claim 70, the rejection of claim 59 is incorporated and Guski teaches:

wherein the one of electronic ticket includes time of day restriction [col. 7 line 29]

As per claim 71, the rejection of claim 70 is incorporated and Guski teaches:

wherein said additional information contains user-related information [col. 7 lines 27-29].

As per claim 77, the rejection of claim 59 is incorporated and Theimer teaches:

said lock device stores a list of invalid key devices and denies authorization to any one of the key devices in the list of invalid key devices [col. 2 lines 40-41].

As per claim 80, it encompasses limitations that are similar to limitations of claim 48.

Thus, it is rejected with the same rationale applied against claim 48 above.

As per claim 81, the rejection of claim 80 is incorporated and it encompasses limitations that are similar to limitations of claim 50. Thus, it is rejected with the same rationale applied against claim 50 above.

As per claim 83, the rejection of claim 80 is incorporated and Theimer teaches:

wherein the second electronic key device including a control device configured to load the private key into second electronic key device remotely and electronically [Fig. 4C].

As per claim 84, the rejection of claim 80 is incorporated and Theimer teaches:
wherein the control device further loads data into at least one other key device [Fig. 4C].

As per claim 85, the rejection of claim 80 is incorporated and Theimer teaches:
wherein confirmation data is input into the control device which forwards confirmation to the first key device [Fig. 4C].

As per claim 92, it encompasses limitations that are similar to limitations of claim 48. Thus, it is rejected with the same rationale applied against claim 48 above.

As per claim 95, the rejection of claim 92 is incorporated and it encompasses limitations that are similar to limitations of claim 54. Thus, it is rejected with the same rationale applied against claim 54 above.

As per claim 96, the rejection of claim 92 is incorporated and it encompasses limitations that are similar to limitations of claim 62. Thus, it is rejected with the same rationale applied against claim 62 above.

As per claim 97, the rejection of claim 96 is incorporated and it encompasses limitations that are similar to limitations of claim 63. Thus, it is rejected with the same rationale applied against claim 63 above.

As per claim 98, the rejection of claim 96 is incorporated and it encompasses limitations that are similar to limitations of claim 64. Thus, it is rejected with the same rationale applied against claim 64 above.

As per claim 99 it encompasses limitations that are similar to limitations of claim 48. Thus, it is rejected with the same rationale applied against claim 48 above.

As per claim 100, the rejection of claim 99 is incorporated and it encompasses limitations that are similar to limitations of claim 62. Thus, it is rejected with the same rationale applied against claim 62 above.

As per claim 101, the rejection of claim 100 is incorporated and it encompasses limitations that are similar to limitations of claim 63. Thus, it is rejected with the same rationale applied against claim 63 above.

4. Claims 51 and 82 are rejected under 35 U.S.C. 103(a) as being unpatentable over Theimer et al (US Patent No. 5,649,099) in view of Guski et al (US Patent No. 6,711,679) and in view of Shin et al (US Patent No. 5,987,134).

As per claim 51, the rejection of claim 48 is incorporated and Shin teaches said electronic lock device stores public keys for a plurality of authorized key holders [Fig. 5 component 101].

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Shin with Theimer and Guski, since one would have been motivated to authenticate the user's access rights to resources and prevent the reply attack [Shin, col. 1 lines 10-11, col. 2 line 14].

As per claim 82, the rejection of claim 80 is incorporated and Shin teaches: wherein at least one of the first and second electronic key devices is not user-interactive [Fig. 1].

5. Claims 52, 53, 78, 79 and 102 are rejected under 35 U.S.C. 103(a) as being unpatentable over Theimer et al (US Patent No. 5,649,099) in view of Guski et al (US Patent No. 6,711,679) and in view of Scott et al (US Patent No. 6,484,260).

As per claim 52, the rejection of claim 48 is incorporated and Scott discloses:

the public key is stored in a plurality of lock devices for which entry is authorized for said key device [col. 6 lines 29-31 "access to one or more secure host facilities 4 only to registered persons", col. 7 lines 24-27].

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Scott with Theimer and Guski, since one would have been motivated to provide secure access to a host facility [Scott, col. 1 lines 47-49].

As per claim 53, the rejection of claim 48 is incorporated and Scott discloses:

a different public key is stored in each lock device for which entry is authorized for said key device [col. 6 lines 30-31, col. 7 lines 24-34].

As per claim 78, the rejection of claim 59 is incorporated and further Scott teaches:

said electronic lock device stores a use counter for n-use electronic tickets [col. 8 lines 11-12].

As per claim 79, the rejection of claim 59 is incorporated and further Scott teaches:

said electronic lock device includes an identification number where the identification number is hierarchical in relation to one or more other lock device identification numbers [col. 5 lines 12-14].

As per claim 102, the rejection of claim 99 is incorporated and further Guski teaches transmitting the ticket to the electronic lock device for authentication [Fig. 3].

Further, Scott teaches: receiving a signal from the electronic lock device; encrypting the signal using a second private key of the first electronic key device; and transmitting the encrypted signal and the ticket to the electronic lock device for authentication [col. 10 lines 44-50, 63-67, col. 11 lines 9-28].

6. Claims 72-76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Theimer et al (US Patent No. 5,649,099) in view of Guski et al (US Patent No. 6,711,679) and in view of Wang (US Patent No. 6,175,922).

As per claim 72, the rejection of claim 59 is incorporated and Wang teaches:

wherein the second key device stores additional information unrelated to the private key [Fig. 3A].

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Wang with Theimer and Guski, since one would have been motivated to eliminate the security risks associated with techniques of approving transactions [Wang, col. 1 lines 15-17].

As per claim 73, the rejection of claim 72 is incorporated and Wang teaches:

wherein said additional information comprises a Social Security number [col. 6 lines 45-46].

As per claim 74, the rejection of claim 59 is incorporated and Wang teaches:

wherein at least one of the first and second electronic key devices includes a personal identification number [col. 6 lines 43-50].

As per claim 75, the rejection of claim 59 is incorporated and Wang teaches:

wherein at least one of the first electronic key device, the second electronic key device and said electronic lock device includes authentication information in the form of coded information known to the user [col. 6 lines 43-50].

As per claim 76, the rejection of claim 59 is incorporated and Wang teaches:

wherein at least one of the first electronic key device, the second electronic key device and said electronic lock device includes authentication information in the form of a physical feature of the user [col. 6 lines 43-50].

Response to Amendment

7. Applicant has amended claims 48, 59, 80, 92 and added new claims 95-102, which necessitated new ground of rejection. See rejection above.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

Lipkin et al (US 6138235) – Controlling access to services between modular applications

Jensenworth et al (US 6279111) – Security model using restricted token

Jaalinoia et al (US 2003/0014315) -- Method and a system for obtaining service using a cellular telecommunication system

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nirav Patel whose telephone number is 571-272-5936. The examiner can normally be reached on 8 am - 4:30 pm (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

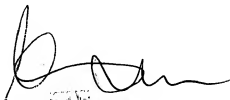
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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NBP

12/17/07



Handwritten signature, likely of a USPTO representative, with a date stamp below it.